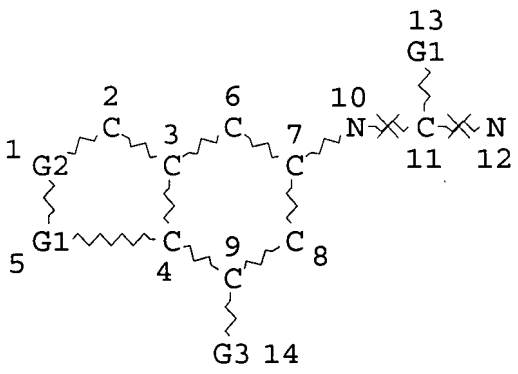
Dentz S.N 08/595158

7-7-1996

study); PREP (Preparation); USES (Uses)

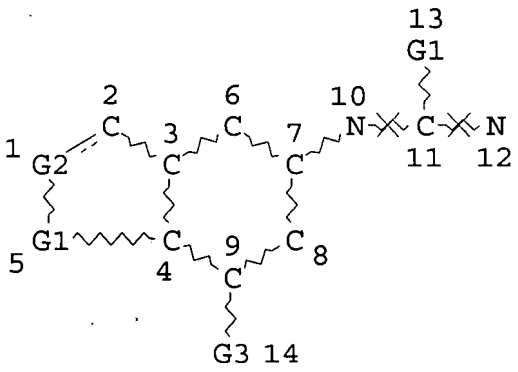
```
=> d his

     (FILE 'HOME' ENTERED AT 11:01:20 ON 08 JUL 96)

     FILE 'REGISTRY' ENTERED AT 11:01:58 ON 08 JUL 96
L1                STRU
L2              0 S L1
L3              0 S L1 FUL
L4                STRU 1
L5              0 S L4
L6                STRU L1
L7              0 S L6
L8                STRU L7
L9              2 S L8
L10            67 S L8 FUL
L11               STRU L8
L12            39 SEARCH L11  SUB=L10 FUL

     FILE 'CA' ENTERED AT 11:31:22 ON 08 JUL 96
L13            14 S L12

=> d l8
'L8' HAS NO ANSWERS
L8                STR
```




```
VAR G1=O/S
REP G2=(1-3) CH
VAR G3=H/AK
NODE ATTRIBUTES:
NSPEC   IS RC     AT  12
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  14

STEREO ATTRIBUTES: NONE
```

=> d 19
NO ANSWERS DISPLAYED.
THE ANSWER SET WAS CREATED IN FILE 'REGISTRY'.
USE THE FILE COMMAND TO CHANGE TO THE CORRECT FILE.
You have entered a file that is not in the current file environment.
Enter "DISPLAY HISTORY" to see a list of the files in the current
environment.

=> d l11
'L11' HAS NO ANSWERS
L11 STR



VAR G1=O/S
REP G2=(1-3) CH
VAR G3=H/AK
NODE ATTRIBUTES:
NSPEC IS RC AT 12
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE

=> d l12 reg can
NO ANSWERS DISPLAYED.
THE ANSWER SET WAS CREATED IN FILE 'REGISTRY'.
USE THE FILE COMMAND TO CHANGE TO THE CORRECT FILE.
You have entered a file that is not in the current file environment.
Enter "DISPLAY HISTORY" to see a list of the files in the current
environment.

=> fil reg
FILE 'REGISTRY' ENTERED AT 11:36:43 ON 08 JUL 96

STRUCTURE FILE UPDATES: 6 JUL 96 HIGHEST RN 177929-67-8
DICTIONARY FILE UPDATES: 6 JUL 96 HIGHEST RN 178150-05-5

TSCA INFORMATION NOW CURRENT THROUGH DECEMBER 1995

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*** YOU HAVE NEW MAIL ***
'.REGISTRY' IS DEFAULT FORMAT FOR 'REGISTRY' FILE

=> d l12 1- reg can
1 RN 174798-58-4 REGISTRY

REFERENCE 1: 124:261061
2 RN 174798-57-3 REGISTRY

REFERENCE 1: 124:261061
3 RN 149866-40-0 REGISTRY

REFERENCE 1: 119:139079
4 RN 149620-94-0 REGISTRY

REFERENCE 1: 119:160327
5 RN 149620-93-9 REGISTRY

REFERENCE 1: 119:160327
6 RN 133077-32-4 REGISTRY

REFERENCE 1: 114:164000
7 RN 130105-31-6 REGISTRY

REFERENCE 1: 113:191969
8 RN 130105-30-5 REGISTRY

REFERENCE 1: 113:191969
9 RN 130104-50-6 REGISTRY

REFERENCE 1: 113:191969
10 RN 125704-84-9 REGISTRY

REFERENCE 1: 112:118858
11 RN 121456-04-0 REGISTRY

REFERENCE 1: 111:39359
12 RN 103082-23-1 REGISTRY

REFERENCE 1: 111:39359

REFERENCE 2: 105:37517

13 RN 103082-22-0 REGISTRY

REFERENCE 1: 111:39359

REFERENCE 2: 105:37517

14 RN 103082-21-9 REGISTRY

REFERENCE 1: 111:39359

REFERENCE 2: 105:37517

15 RN 99346-70-0 REGISTRY

REFERENCE 1: 103:224372

16 RN 99346-63-1 REGISTRY

REFERENCE 1: 103:224372

17 RN 99346-62-0 REGISTRY

REFERENCE 1: 103:224372

18 RN 99346-60-8 REGISTRY

REFERENCE 1: 103:224372

19 RN 61090-75-3 REGISTRY

REFERENCE 1: 86:5484

20 RN 61090-74-2 REGISTRY

REFERENCE 1: 86:5484

21 RN 61090-43-5 REGISTRY

REFERENCE 1: 86:5484

22 RN 50822-08-7 REGISTRY

REFERENCE 1: 79:88264

23 RN 27677-73-2 REGISTRY

REFERENCE 1: 72:41258

24 RN 27045-09-6 REGISTRY

REFERENCE 1: 73:3747

25 RN 27045-07-4 REGISTRY

REFERENCE 1: 73:3747

26 RN 27045-06-3 REGISTRY

REFERENCE 1: 73:3747

27 RN 27045-05-2 REGISTRY

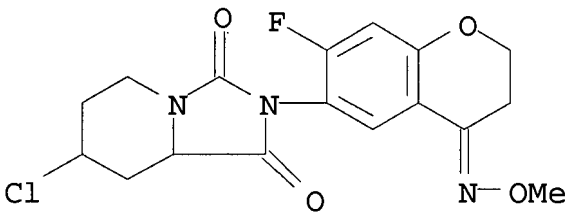
REFERENCE 1: 73:3747

28 RN 27045-04-1 REGISTRY

REFERENCE 1: 73:3747

29 RN 27045-03-0 REGISTRY

```
REFERENCE   1:  73:3747
30          RN              27045-02-9  REGISTRY

REFERENCE   1:  73:3747
31          RN              27045-01-8  REGISTRY

REFERENCE   1:  73:3747
32          RN              27045-00-7  REGISTRY

REFERENCE   1:  73:3747
33          RN              27044-99-1  REGISTRY

REFERENCE   1:  73:3747
34          RN              19206-24-7  REGISTRY

REFERENCE   1:  71:38935
35          RN               6758-52-7  REGISTRY
36          RN               6744-43-0  REGISTRY
37          RN               6744-42-9  REGISTRY
38          RN               6739-76-0  REGISTRY
39          RN               6739-75-9  REGISTRY

=> d 1 3 4 6 7 10 ide can
NO ANSWERS DISPLAYED.
THE ANSWER SET WAS CREATED IN FILE 'CA'.
USE THE FILE COMMAND TO CHANGE TO THE CORRECT FILE.
You have entered a file that is not in the current file
environment.
Enter "DISPLAY HISTORY" to see a list of the files in the
current
environment.

=> d l12 1 3 4 6 7 10 ide can

L12  ANSWER 1 OF 39  REGISTRY  COPYRIGHT 1996 ACS
RN   174798-58-4  REGISTRY
CN   Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione,
7-chloro-2-[7-fluoro-3,4-
     dihydro-4-(methoxyimino)-2H-1-benzopyran-6-yl]tetrahydro-
(9CI)  (CA
     INDEX NAME)
FS   3D CONCORD
MF   C17 H17 Cl F N3 O4
SR   CA
LC   STN Files:   CA, CAPLUS
```

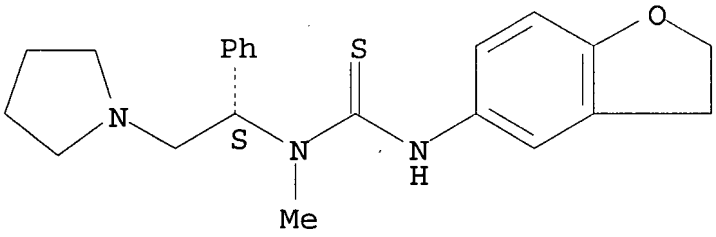


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:261061

L12 ANSWER 3 OF 39 REGISTRY COPYRIGHT 1996 ACS
RN 149866-40-0 REGISTRY
CN Thiourea,
N'-(2,3-dihydro-5-benzofuranyl)-N-methyl-N-[1-phenyl-2-(1-pyrrolidinyl)ethyl]-, monohydrochloride, (S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C22 H27 N3 O S . Cl H
SR CA
LC STN Files: CA, CAPLUS
DES 1:S

Absolute stereochemistry.



● HCl

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

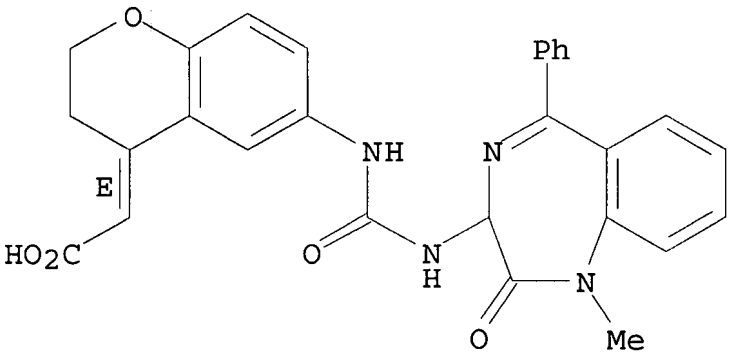
REFERENCE 1: 119:139079

L12 ANSWER 4 OF 39 REGISTRY COPYRIGHT 1996 ACS
RN 149620-94-0 REGISTRY
CN Acetic acid,
[6-[[[(2,3-dihydro-1-methyl-2-oxo-5-phenyl-1H-1,4-

benzodiazepin-3-yl)amino]carbonyl]amino]-2,3-dihydro-4H-1-benzopyran-

4-ylidene]-, (E)-(.+-.)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1H-1,4-Benzodiazepine, acetic acid deriv.
FS STEREOSEARCH
MF C28 H24 N4 O5
SR CA
LC STN Files: CA, CAPLUS
DES 2:E3:(+-)

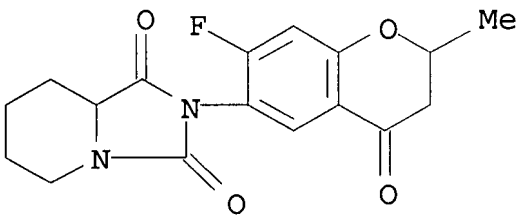
Racemate.
Double bond geometry as shown.



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 119:160327

L12 ANSWER 6 OF 39 REGISTRY COPYRIGHT 1996 ACS
RN 133077-32-4 REGISTRY
CN Imidazo[1,5-a]pyridine-1,3(2H,5H)-dione,
2-(7-fluoro-3,4-dihydro-2-
methyl-4-oxo-2H-1-benzopyran-6-yl)tetrahydro- (9CI) (CA
INDEX NAME)
FS 3D CONCORD
MF C17 H17 F N2 O4
SR CA
LC STN Files: CA, CAPLUS

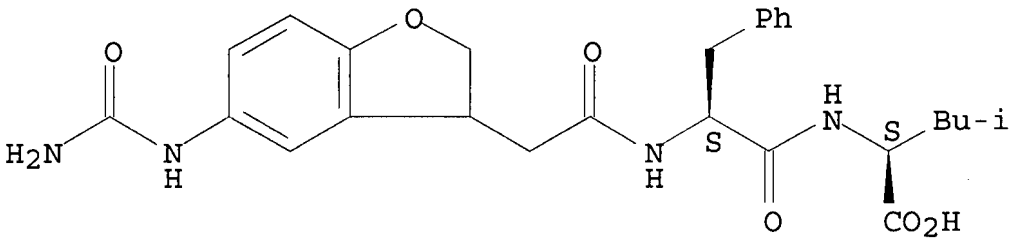


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 114:164000

L12 ANSWER 7 OF 39 REGISTRY COPYRIGHT 1996 ACS
RN 130105-31-6 REGISTRY
CN L-Leucine, N-[N-[[5-[(aminocarbonyl)amino]-2,3-dihydro-3-benzofuranyl]acetyl]-L-phenylalanyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C26 H32 N4 O6
SR CA
LC STN Files: CA, CAPLUS
DES 5:L,L

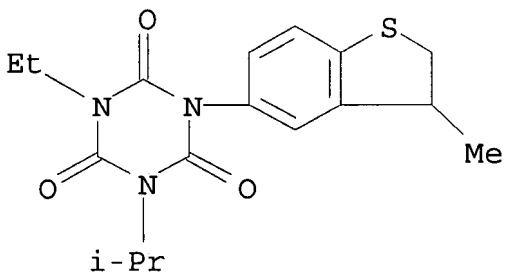
Absolute stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 113:191969

L12 ANSWER 10 OF 39 REGISTRY COPYRIGHT 1996 ACS
RN 125704-84-9 REGISTRY
CN 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1-(2,3-dihydro-3-methylbenzo[b]thien-5-yl)-3-ethyl-5-(1-methylethyl)- (9CI) (CA
INDEX NAME)
FS 3D CONCORD
MF C17 H21 N3 O3 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

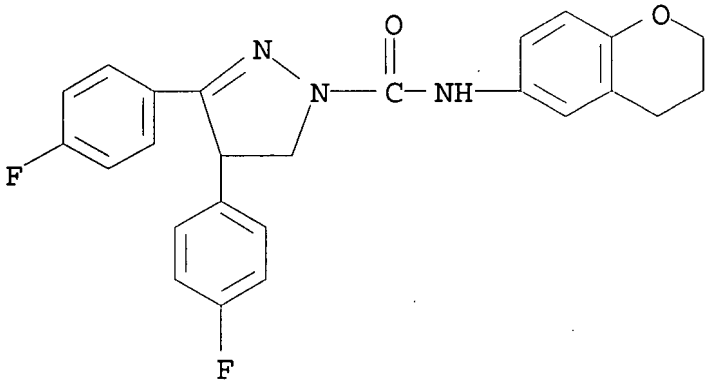


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 112:118858

=> d l12 11 15 19 22 23 24 ide can

L12 ANSWER 11 OF 39 REGISTRY COPYRIGHT 1996 ACS
RN 121456-04-0 REGISTRY
CN 1H-Pyrazole-1-carboxamide,
N-(3,4-dihydro-2H-1-benzopyran-6-yl)-3,4-
bis(4-fluorophenyl)-4,5-dihydro- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C25 H21 F2 N3 O2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

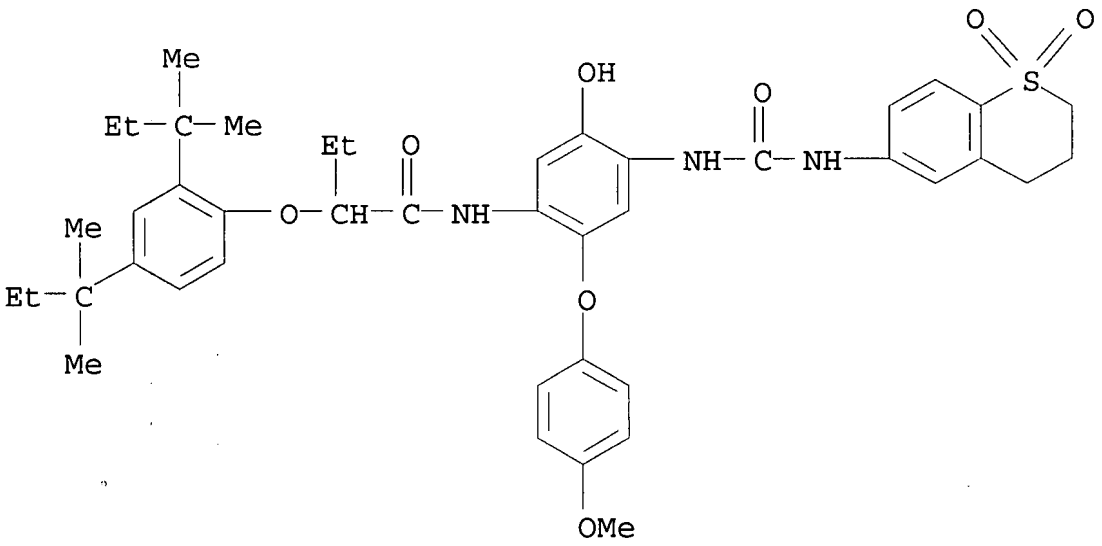


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 111:39359

L12 ANSWER 15 OF 39 REGISTRY COPYRIGHT 1996 ACS
RN 99346-70-0 REGISTRY
CN Butanamide,
2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[4-[[[(3,4-

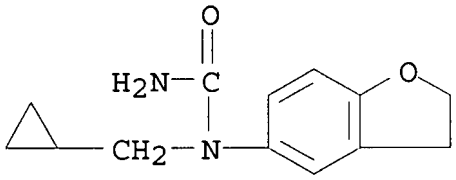
dihydro-2H-1-benzothiopyran-6-yl)amino]carbonyl]amino]-5-hydroxy-
2-
(4-methoxyphenoxy)phenyl]-, S,S-dioxide (9CI) (CA INDEX
NAME)
OTHER CA INDEX NAMES:
CN 2H-1-Benzothiopyran, butanamide deriv.
FS 3D CONCORD
MF C43 H53 N3 O8 S
SR CA
LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 103:224372

L12 ANSWER 19 OF 39 REGISTRY COPYRIGHT 1996 ACS
RN 61090-75-3 REGISTRY
CN Urea, N-(cyclopropylmethyl)-N-(2,3-dihydro-5-benzofuranyl)-(9CI)
(CA INDEX NAME)
FS 3D CONCORD
MF C13 H16 N2 O2
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

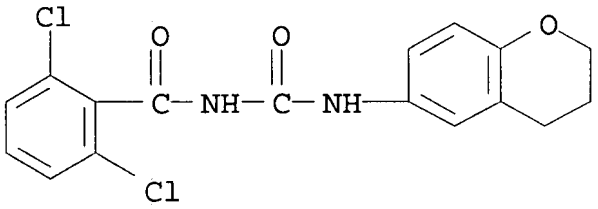


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 86:5484

L12 ANSWER 22 OF 39 REGISTRY COPYRIGHT 1996 ACS
RN 50822-08-7 REGISTRY
CN Benzamide, 2,6-dichloro-N-[[(3,4-dihydro-2H-1-benzopyran-6-yl)amino]carbonyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD

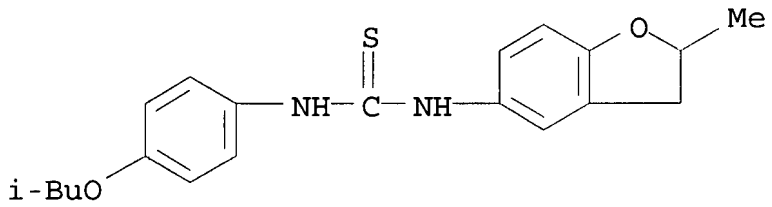
MF C17 H14 Cl2 N2 O3
LC STN Files: CA, CAPLUS, TOXLIT



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 79:88264

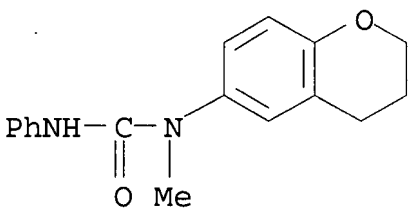
L12 ANSWER 23 OF 39 REGISTRY COPYRIGHT 1996 ACS
RN 27677-73-2 REGISTRY
CN Urea,
1-(2,3-dihydro-2-methyl-5-benzofuranyl)-3-(p-isobutoxyphenyl)-
2-thio- (8CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H24 N2 O2 S
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 72:41258

L12 ANSWER 24 OF 39 REGISTRY COPYRIGHT 1996 ACS
RN 27045-09-6 REGISTRY
CN Urea, 1-(6-chromanyl)-1-methyl-3-phenyl- (8CI) (CA INDEX
NAME)
FS 3D CONCORD
MF C17 H18 N2 O2
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

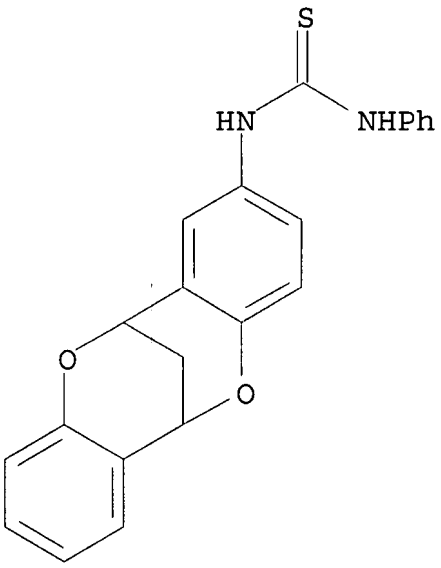
REFERENCE 1: 73:3747

=> d 34-39 ide can
NO ANSWERS DISPLAYED.
THE ANSWER SET WAS CREATED IN FILE 'CA'.
USE THE FILE COMMAND TO CHANGE TO THE CORRECT FILE.
You have entered a file that is not in the current file environment.
Enter "DISPLAY HISTORY" to see a list of the files in the current
environment.

=> d l12 34-39 ide can

L12 ANSWER 34 OF 39 REGISTRY COPYRIGHT 1996 ACS
RN 19206-24-7 REGISTRY
CN Urea,
1-(6,12-methano-6H,12H-dibenzo[b,f][1,5]dioxocin-2-yl)-3-phenyl-2-thio-, (.+-.)- (8CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C22 H18 N2 O2 S
LC STN Files: CA, CAPLUS
DES 3:(+-)

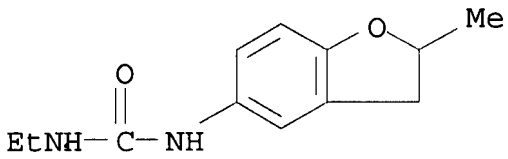
Racemate.



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

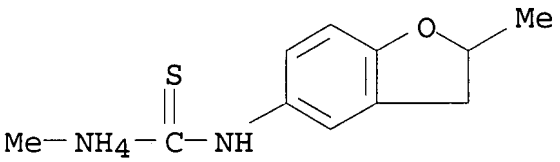
REFERENCE 1: 71:38935

L12 ANSWER 35 OF 39 REGISTRY COPYRIGHT 1996 ACS
RN 6758-52-7 REGISTRY
CN Urea, 1-(2,3-dihydro-2-methyl-5-benzofuranyl)-3-ethyl- (7CI, 8CI)
(CA INDEX NAME)
FS 3D CONCORD
MF C12 H16 N2 O2
LC STN Files: CAOLD



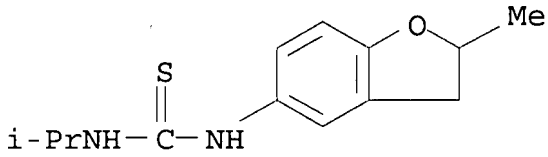
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L12 ANSWER 36 OF 39 REGISTRY COPYRIGHT 1996 ACS
RN 6744-43-0 REGISTRY
CN Urea, 1-(2,3-dihydro-2-methyl-5-benzofuranyl)-3-methyl-2-thio- (7CI, 8CI) (CA INDEX NAME)
MF C11 H17 N2 O S
LC STN Files: CAOLD



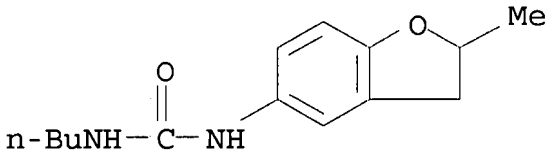
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L12 ANSWER 37 OF 39 REGISTRY COPYRIGHT 1996 ACS
RN 6744-42-9 REGISTRY
CN Urea,
1-(2,3-dihydro-2-methyl-5-benzofuranyl)-3-isopropyl-2-thio-
(7CI, 8CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H18 N2 O S
LC STN Files: CAOLD



1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

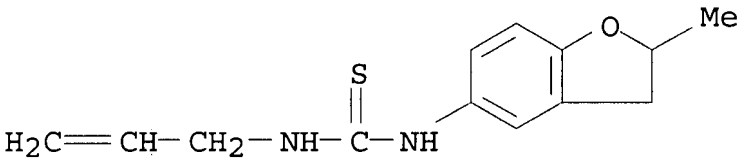
L12 ANSWER 38 OF 39 REGISTRY COPYRIGHT 1996 ACS
RN 6739-76-0 REGISTRY
CN Urea, 1-butyl-3-(2,3-dihydro-2-methyl-5-benzofuranyl)-
(7CI, 8CI)
(CA INDEX NAME)
FS 3D CONCORD
MF C14 H20 N2 O2
LC STN Files: BEILSTEIN*, CAOLD
(*File contains numerically searchable property data)



1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L12 ANSWER 39 OF 39 REGISTRY COPYRIGHT 1996 ACS
RN 6739-75-9 REGISTRY
CN Urea,
1-allyl-3-(2,3-dihydro-2-methyl-5-benzofuranyl)-2-thio- (7CI,

8CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H16 N2 O S
LC STN Files: BEILSTEIN*, CAOLD
    (*File contains numerically searchable property data)



1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> fil caold
FILE 'CAOLD' ENTERED AT 11:41:41 ON 08 JUL 96
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 1996 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1957-1966
FILE LAST UPDATED: 30 OCT 91 (910803/ED)

  To help control your online searching costs, consider using the
  HCAOLD File when conducting SmartSELECT searches with large
  numbers of terms.

=> s l12
L14 3 L12

=> d 1-3

L14 ANSWER 1 OF 3 COPYRIGHT 1996 ACS
AN CA65:3835e
DT P
IT 6739-73-7 6739-76-0 6739-77-1

L14 ANSWER 2 OF 3 COPYRIGHT 1996 ACS
AN CA65:3835d
DT P
IT 6739-75-9

L14 ANSWER 3 OF 3 COPYRIGHT 1996 ACS
AN CA65:3835c
DT P
IT 6744-42-9 6744-43-0 6758-52-7

=> fil ca
FILE 'CA' ENTERED AT 11:42:08 ON 08 JUL 96
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L13 ANSWER 1 OF 14 CA COPYRIGHT 1996 ACS
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174798-60-8P
RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(prepn. of
2-phenyl-7-chloroperhydroimidazo[1,5-a]pyridine
herbicides for controlling undesired weeds)

=> d 1-14 cbib,abs
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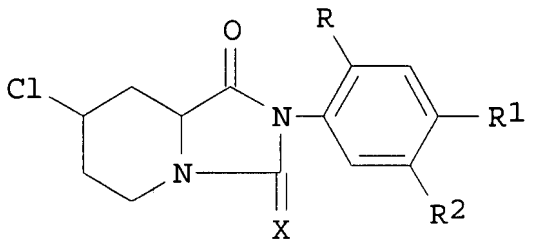
=> d l13 cbib abs

L13 ANSWER 1 OF 14 CA COPYRIGHT 1996 ACS
124:261061 Preparation of 2-phenyl-7-chloroperhydroimidazo[1,5-a]pyridine herbicides for controlling undesired weeds.
Seckinger,
Karl; Mohanty, Sasank Sekhar; Milzner, Karlheinz; Kuhnen, Fred
(Sandoz Ltd., Switz.; Sandoz-Patent-GmbH; Sandoz-Erfindungen Verwaltungsgesellschaft m.b.H.). Eur. Pat. Appl. EP 688773 A1
951227, 24 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR,
GB, GR, IE, IT, LI, LU, NL, PT, SE. (English). CODEN: EPXXDW.
APPLICATION: EP 95-810410 950620. PRIORITY: GB 94-12603 940623.
GI



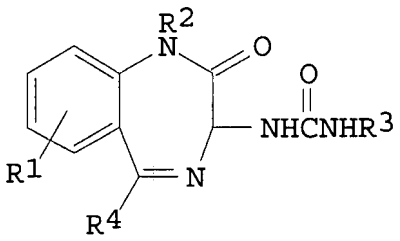
I

AB The title compds. (I; X = O, S; R = H, Cl, F; R1 = F, Cl, Br, CN,
Me; R2 = halogen, C 1-6 alkyl, C1-6 alkoxy, C1-6 alkylcarbonyloxy,
C3-6 cycloalkoxy, C3-6 alkynyloxy, C3-6 alkenyloxy, CO2H, etc.),
useful as herbicides for the control of undesired weeds, are prepd.
Thus, 4-chloro-2-piperidinecarboxylic acid Me ester hydrochloride
was reacted with the isocyanate of Me 2-chloro-4-fluoro-5-
aminocinnamate, producing herbicidal Me 2-chloro-4-fluoro-5-(7-

chloroperhydroimidazo[1,5-a]pyridine-1,3-dione-2-yl)cinnamate, m.p.
162-163.degree..

=> d l13 2-14 cbib abs

L13 ANSWER 2 OF 14 CA COPYRIGHT 1996 ACS
119:160327 Preparation of 3-ureidobenzodiazepinones useful as CCK or
gastrin antagonists. Capet, Marc; Cotrel, Claude; Dubroeucq, Marie
Christine; Guyon, Claude; Martin, Jean Paul (Rhone-Poulenc Rorer SA,
Fr.). Eur. Pat. Appl. EP 538099 A1 930421, 31 pp. DESIGNATED
STATES: R: PT. (French). CODEN: EPXXDW. APPLICATION: EP
92-402741 921008. PRIORITY: FR 91-12481 911010.
GI



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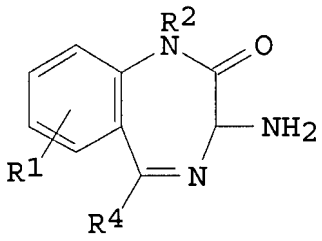

II

AB Title compds. I [R1 = H, halo, alkyl, alkoxy, alkylthio, NO2, OH,
-CN; R2 = alkyl, CHR5COR6 (R5 = H, alkyl, alkoxycarbonyl, various
(un)substituted Ph, R6 = alkoxy, various (un)substituted
cycloalkyloxy, cycloalkylalkyloxy, various substituted N derivs.,
cyclic and acyclic); R3 = Ph substituted by one or more ZSO3H (Z =
alkylene), ZPO3H2, CH:NOH, CHNOZCO2X, SOZCO2X, SZCO2X, SO2ZCO2X,
CH:CHCO2X, ZCONHOH, C(:NOH)CO2X, ZN(OH)COZ, ZSO2H, CH:CHSO3H,
C(CO2X):NOZCO2X, tetrazolylalkyl, etc.] are prepd. as CCK or gastrin
antagonists (no data) by condensation of a carbonic acid deriv. and
amine R3NH2 with an aminodihydrobenzodiazepinone II.

L13 ANSWER 3 OF 14 CA COPYRIGHT 1996 ACS
119:139079 Preparation of (pyrrolidinoethyl)urea derivatives as
analgesics. Takeuchi, Makoto; Takayama, Kazuhisa; Onda, Kenichi;
Motoie, Hiroyuki; Isomura, Yasuo (Yamanouchi Pharmaceutical Co.,
Ltd., Japan). PCT Int. Appl. WO 9303011 A1 930218, 93 pp.
DESIGNATED STATES: W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES,
FI, GB, HU, JP, KR, LK, LU, MG, MN, MW, NL, NO, PL, RO, RU, SD, SE,
US; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB,
GR, IE, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG.
(Japanese). CODEN:
PIXXD2. APPLICATION: WO 92-JP993 920804. PRIORITY: JP 91-223280
910808; JP 91-309952 911029.
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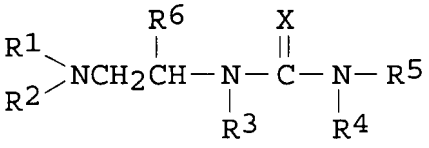

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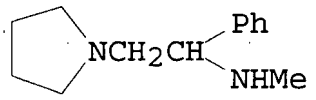

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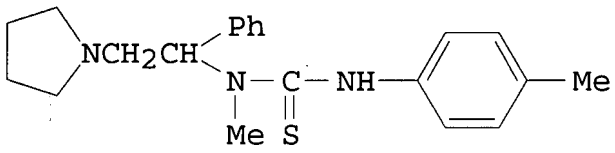
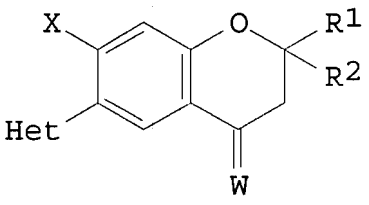


III

AB The title compds. [I; R1, R2 = alkyl, alkenyl, alkynyl, cycloalkyl,
R1R2N pyrrolidino; R3, R4 = H, alkyl, alkenyl, alkynyl, cycloalkyl;
R3R4 = alkylene, alkenylene, etc.; R5 = (substituted) carbocyclic,
condensed heterocyclyl contg. 1 or 2 O and/or S atoms; R6 = (substituted) Ph; X = O, S] are prepd. A mixt. of 4-MeC6H4NCS and
pyrrolidine deriv. (S)-II in ClCH2CH2Cl was stirred at room temp. to
give thiourea (S)-III, which was treated with 4N HCl in EtOAc to
give (S)-III.HCl. III.HCl showed EO50 of 0.54 mg/kg s.c. in mice in
the tail pinch test. Tablet, capsule, injection formulations were
given.

L13 ANSWER 4 OF 14 CA COPYRIGHT 1996 ACS
114:164000 Preparation of N-aryl imides as herbicides.
Kunisch, Franz;
Arlt, Dieter; Santel, Hans Joachim; Luerssen, Klaus; Schmidt, Robert
R. (Bayer A.-G., Fed. Rep. Ger.). Eur. Pat. Appl. EP 400403 A2
901205, 37 pp. DESIGNATED STATES: R: BE, CH, DE, FR, GB, IT, LI,
NL. (German). CODEN: EPXXDW. APPLICATION: EP 90-109300 900517.
PRIORITY: DE 89-3917515 890530.
GI



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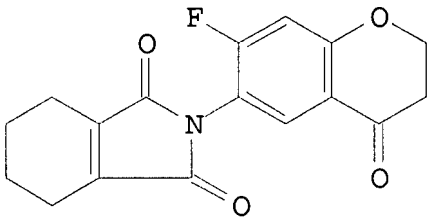


II

AB N-Aryl imide derivs. I [R1,R2 = H, alkyl; Het = (substituted)
tetrahydrophthalimido, maleimido, and other cyclic N- and O-contg.
imides; X = H, halo; W = O, NOR3; R3 = H, (substituted) alkyl,
alkenyl, alkynyl or cycloalkyl], useful as herbicides (no data),
were prepd. For example, a mixt. of 3,4,5,6-tetrahydrophthalic
anhydride and 6-amino-7-fluorochroman-4-one (prepn. given) in HOAc
was refluxed 3 h to give 42% imide II. Various I show better
activity as post-emergent herbicides when compared to a known
herbicide.

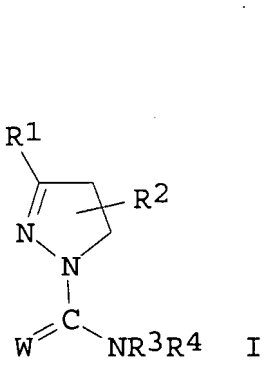
L13 ANSWER 5 OF 14 CA COPYRIGHT 1996 ACS
113:191969 Renin inhibitory peptides containing (4S)-amino-5-cyclohexyl-
(3S)-hydroxypentanoic acid. Smith, Stephen Allan; Ham, Peter; Nash,
David John (Beecham Group PLC, UK). Eur. Pat. Appl. EP 350163 A2
900110, 91 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB,
GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP
89-305691 890606. PRIORITY: GB 88-13671 880609; GB 88-29065 881213;
GB 89-6262 890318.
GI For diagram(s), see printed CA Issue.
AB The title peptides [I; Z1Z2Z3 = atoms to complete a 5-membered
nonarom. heterocyclic ring; E = absent, (CH2)n, CH(CH2)n-1; n = 1-4;
A = CONH, NHCO, CO2, CH2, S(O)r; r, p = 0-2; q = 0,1; R1 =
(un)substituted (hetero)arylmethyl; R2 = CHR8R9; R8 = H, Me and R9 =
C1-6 alkyl, C3-8 cycloalkyl, (un)substituted (hetero)aryl; R9 = NH2,

C2-7 alkanoylamino, 2-oxopyrrolidinyl, etc.; R3 = alkyl, cycloalkylmethyl; R4 = (cyclo)alkyl; R5 = H, alkyl; or R5 = OH when A = CH2; R6,R7 = H, substituent], useful for the treatment of hypertension, are prepd. Thus, N-(2,3-dihydrobenzofuran-2-carbonyl)-(S)-phenylalanyl-(S)-leucine was condensed with (4S)-amino-5-cyclohexyl-(3S)-hydroxypentanoic acid isobutylamide (ACHPAA) in the presence of hydroxybenzotriazole and DCC in THF at room temp. overnight to give Q-Phe-Leu-ACHPAA (II; Q = 2,3-dihydrobenzofuran-2-carbonyl). II [Q = (6-aminomethyl-2,3-dihydro-1,1-dioxobenzothiophen-3-ylacetyl] in vitro inhibited human renin with an IC50 of 0.8 .times. 10-8M. A total of 75 I were prepd.

L13 ANSWER 6 OF 14 CA COPYRIGHT 1996 ACS
112:118858 Trisubstituted 1,3,5-triazine-2,4,6-triones as agrochemical fungicides. Adler, Alfons; Widdig, Arno; Kuehle, Engelbert; Fuehrer, Wolfgang; Hagemann, Hermann; Haenssler, Gerd (Bayer A.-G., Fed. Rep. Ger.). Eur. Pat. Appl. EP 334135 A2 890927, 32 pp.
DESIGNATED STATES: R: BE, CH, DE, FR, GB, IT, LI, NL. (German).
CODEN: EPXXDW. APPLICATION: EP 89-104338 890311. PRIORITY: DE 88-3810080 880325.
GI For diagram(s), see printed CA Issue.
AB The title compds [I; R1 = (substituted) aliph., arom., or cycloaliphtic residue; R2 = (substituted) aliph. residue; R3 = (substituted) benzoheterocyclyl], useful as pesticides, were prepd. Thus, MeI was added to a mixt. of 1-(2,2-dimethylpropyl)-3-[6-(2,2,3,3-tetrafluoro-2,3-dihydro-1,4-benzodioxinyl)]-1,3,5-triazine-2,4,6-trione. The mixt. was refluxed 5 h to give 88% triazinetrione II. Several I as 0.025% sprays gave 90-100% control of Pyricularia oryzae on rice.

L13 ANSWER 7 OF 14 CA COPYRIGHT 1996 ACS
111:39359 Insecticidal pyrazoline-1-carboxamides, compositions containing them, and their use. Duggan, Angelina J. (FMC Corp.,

USA). U.S. US 4767779 A 880830, 21 pp. Cont.-in-part of U.S. Ser.
No. 779,721, abandoned. (English). CODEN: USXXAM. APPLICATION: US
86-849658 860409. PRIORITY: US 84-664674 841025; US 85-709626
850308; US 85-779721 850924.
GI



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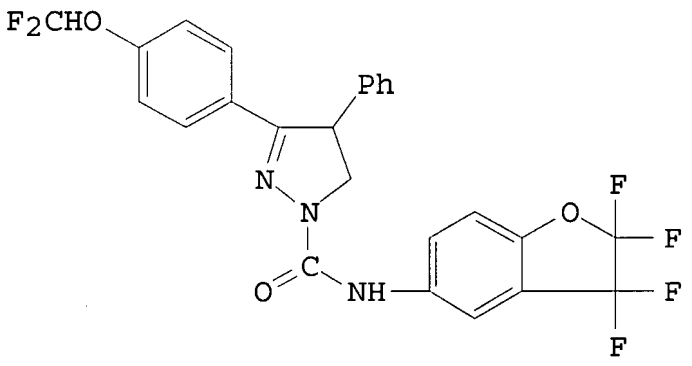
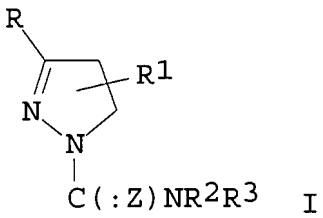


II

AB The title compds. [I; R1, R2 = (un)substituted Ph optionally fused
by O-contg. satd. ring; R3 = (un)substituted C6H4OPh, C6H4SPh, Ph
fused by O-contg. satd. ring, indanyl; R4 = H, alkyl; W = O, S] are
prepd. as insecticides. Etherification of 2,4-Cl(O2N)C6H3OH with
BrCF2CF2Br in DMF in the presence of K2CO3 and PrSH at 50/.degree.
gave 2,4-Cl(O2N)C6H3OCF2CF2Br, which was cyclized by powd. Cu and
2,2'-bipyridyl in DMSO at 190-195.degree. to give
2,3-dihydro-2,2,3,3-tetrafluoro-5-nitrobenzofuran. This underwent
hydrogenation over PtO2 to give the 5-amino compd., which was
treated with COCl2 in refluxing PhMe to give the isocyanate.
Reaction of the latter with 3-(4-difluoromethoxyphenyl)-4-
phenylpyrazoline in Et2O contg. Et3N catalyst gave
(dihydrotetrafluorobenzofuranyl)(difluoromethoxyphenyl)phenylpyrazo
linecarboxamide II. As an 8-ppm foliar spray on pinto bean plants
prior to infestation, II was 100% lethal to Spodoptera eridania, S.
exigua, and Epilachua varivestis, and 95% lethal to Trichoplusia ni.

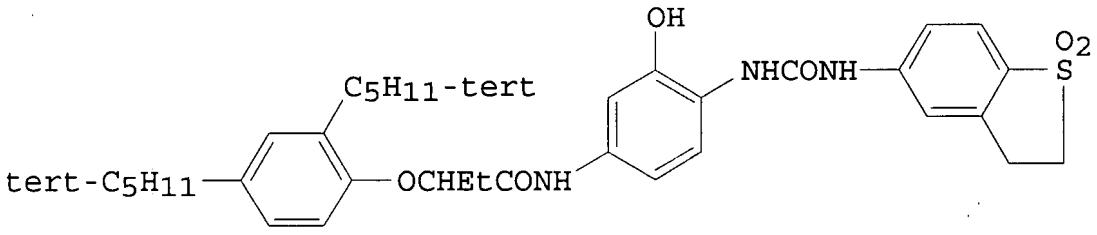
L13 ANSWER 8 OF 14 CA COPYRIGHT 1996 ACS
105:37517 Pyrazoline insecticides. Duggan, Angeline Joy (FMC Corp. ,
USA). Ger. Offen. DE 3537884 A1 860430, 61 pp. (German). CODEN:
GWXXBX. APPLICATION: DE 85-3537884 851024. PRIORITY: US 84-664674
841025; US 85-709626 850308; US 85-779721 850924.
GI



I

AB The pyrazolines I [R = (un)substituted Ph, etc.; R1 =
(un)substituted Ph, 1,4-benzodioxan-6-yl, 1,3-benzodioxol-5-yl,
etc.; R2 = H, alkyl; R3 = (un)substituted PhOC6H4, (un)substituted
1,3-benzodioxol-5-yl, benzofuran-5-yl, etc.; Z = O, S] are prepd. as
insecticides. Thus, 4-FC6H4NO2 was condensed with 4-ClC6H4OH in
K2CO3-contg. DMSO at 70.degree. to give 4-(4-ClC6H4O)C6H4NO2, which
was hydrogenated into 4-(4-ClC6H4O)C6H4NH2 on PtO2. The amine was
reacted with ClCO2CCl3 in PhMe and the product treated with
3-(4-chlorophenyl)-4-phenylpyrazoline to give I [R = 4-ClC6H4; R1 =
4-Ph, R2 = H; R3 = 4-(4-ClC6H4O)C6H4; Z = O] (II). II (500 ppm)
controlled Spodoptera ridania and Epilachna varivestis, on bean
leaves, in the lab.

L13 ANSWER 9 OF 14 CA COPYRIGHT 1996 ACS
103:224372 Silver halide photographic material. (Konishiroku Photo
Industry Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 60108846 A2
850614 Showa, 10 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP
83-218222 831118.
GI



I

AB A Ag halide photog. material has .gtoreq.1 emulsion layer contg. a phenolic cyan coupler having an arylureido group having a Ph ring to which a heterocyclic ring is condensed through -S- or -SO2- (the -S- or -SO2- is directly linked with the phenol ring) at the 2-position, a H or a coupling-off group at the 4-position, and an acylamino group at the 5-position of the phenol ring. By reacting with an oxidized developing agent, it forms a cyan dye which has a sharp spectral absorption in the red region with a low level of unwanted green absorption. The dye-forming activity is also insensitive to benzyl alc. concn. in a developer or to the exhaustion of processing solns. Thus, a Ag(Br,I) emulsion (AgI 5 mol%) contg. I had a good developability upon development by a typical color neg. process, even when a fairly exhausted bleach soln. was used, and formed a cyan dye image with excellent spectral absorption.

L13 ANSWER 10 OF 14 CA COPYRIGHT 1996 ACS
86:5484 Tricyclic furoquinazolinones. Cooke, George A.; Houlihan, William J. (Sandoz-Wander, Inc., USA). U.S. US 3963717 760615, 11 pp. (English). CODEN: USXXAM. APPLICATION: US 75-556574 750310.
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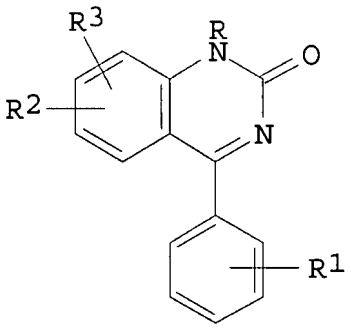

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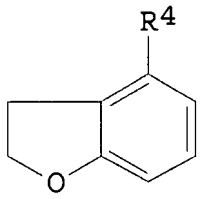

II

AB Antiinflammatory and analgesic (no data) furoquinazolinones I (R =
CHMe2, cyclopropylmethyl, cyclopentylmethyl, CMe3, CH2CMe:CH2, Et;
R1 = H, 4-F, 4-CF3, 3-OMe; R2R3 = 7,8-OCH2CH2, 6,7-OCH2CH2,
5,6-CH2CH2O, 6,7-CH2CH2O, 5,6-OCH2CH2, 7,8-CH2CH2O) (38 compds.)
were prepd. Thus the benzofuranamine II (R4 = NH2) was treated with
Me2CHI, II (R4 = NHCHMe2) treated with NaNCO, II [R4 =
N(CHMe2)CONH2] condensed with PhCHO and oxidized with KMnO4 to give
I (R = CHMe2, R1 = H, R2R3 = 7,8-OCH2CH2).

L13 ANSWER 11 OF 14 CA COPYRIGHT 1996 ACS
79:88264 Synthesis and laboratory evaluation of 1-(2,6-disubstituted
benzoyl)-3-phenylureas, a new class of insecticides. I.
1-(2,5-Dichlorobenzoyl)-3-phenylureas. Wellinga, Kobus; Mulder,
Rudolf; Van Daalen, Jan J. (Res. Lab., Philips-Duphar B.V., Weesp,
Neth.). J. Agr. Food Chem., 21(3), 348-54 (English) 1973. CODEN:
JAFCAU.
AB Addnl. data considered in abstracting and indexing are available
from a source cited in the original document. Out a large no. of
1-(2,6-dichlorobenzoyl)-3-phenylureas I (R = mono-, di- or trihalo,
alkyl, chloroalkyl, or aryl, R1 = H, alkyl, haloalkyl, or alkenyl,
R2 = H, Me, OMe, PhCH2 or OH) sensitized and tested against Aedes
aegypti, Pieris brassicae and Leptinotarsa decemlineata,
1-(2,6-dichlorobenzoyl)-3-(4-chlorophenyl)urea (I, R = 4-Cl, R1 = R2
= H) [35409-97-3] was the most active. In many cases, the

activities against the 3 test insects differed, M. decemlineata being usually the least sensitive. When R was dihalo, the lowest activities were shown in position 2,6. High activity was shown for R = alkyl. I showed the highest activities when R1 and R2 were H. Very poor activity was shown when R was an electron-attracting group. I acted by disturbing the cuticle deposition, resulting in abortive molt.

L13 ANSWER 12 OF 14 CA COPYRIGHT 1996 ACS
73:3747 Substituted chroman-6-ylureas and thioureas. Lettieri, G.; Brancaccio, Giovanni; Larizza, Angelo; Viterbo, Rene (Res. Lab., Richardson-Merrell S.p.A., Naples, Italy). J. Med. Chem., 13(3), 584-5 (English) 1970. CODEN: JMCMAR.
AB I (R = H, Me, or Cl; R1 = H or Me; R2 = Ph, 4-ClC6H4, Pr, 3-(O2N)C6H4, 2-MeOC6H4, or 4-EtOC6H4; X = O or S) are prepd. from chromanylamines and isocyanates or isothiocyanates.

L13 ANSWER 13 OF 14 CA COPYRIGHT 1996 ACS
72:41258 Tuberculostatic 1,3-diarylthioureas. I. Winkelmann, Erhardt; Wagner, Wolf H.; Hilmer, Hans (Farbwerke Hoecht A.-G., Frankfurt/M.-Hoechst, Ger.). Arzneim.-Forsch., 19(4), 543-58 (German) 1969. CODEN: ARZNAD.
AB One hundred eighty different Ph substituted thioureas (R1NHCSNH r2) were tested for tuberculostatic activity in vitro and in the mouse. The tables presented indicate that p-BuOC6H4NHCSNHC6H4OBu-m (I) had the greatest activity in vitro (0.1-0.2 .mu.g/ml) while in vivo I was most active at a dosage of 250 mg/kg body wt. when given orally.

L13 ANSWER 14 OF 14 CA COPYRIGHT 1996 ACS
71:38935 6H,12H-6,12-methanodibenzo[b,f] [1,5]dioxocins from the reactions of o-coumaric acids and salicylaldehydes. Hennis, Henry E.; Wang, Chun-Shan (Benzene Res. Lab., Dow Chem. Co., Midland, Mich., USA). J. Org. Chem., 34(6), 1907-11 (English) 1969. CODEN:

JOCEAH.
AB 6H,12H-6,12-Methanodibenzo[b,f][1,5]dioxocin (I) was prepd. from the
reaction of o-vinylphenol or o-coumaric acid (II) and
salicylaldehyde (III) in 4.6% yield. 2-Methyl-, 2-bromo- (IV), and
2-nitro-6H,12H-6,12-methanodibenzo[b,f][1,5]-dioxocins (V) were
synthesized by the reactions of 2-hydroxy-5-methylcinnamic acid with
III and II with 5-bromo- and 5-nitro-salicylaldehyde, resp. The
reactions of 2-hydroxy-1-naphthaldehyde gave heterocyclics contg. a
naphthalene ring. I was brominated to the 2,8-dibromo deriv. (VI).
Both IV and VI were converted into the nitriles by reaction with
CuCN. Neither IV nor VI could be converted into Grignard reagents,
but were readily metallated with BuLi. The organometallics were
carbonated to yield carboxylic acids. The heterocyclic ring system
of I was cleaved by hydrogenolysis to 2,2'-trimethylenediphenol.
(.+-.)-2-Amino-6H,12H-6,12-methanodibenzo[b,f][1,5]dioxocin
(.+-.-VII), prepd. by the catalytic hydrogenation of V, was resolved
via the tartrate salts to yield the optical isomers, [.alpha.]25D
389.0 and -393.3.degree.. The more abundant (+)-VII was reduced via
diazotization to (+)-I, [.alpha.]25D 266.7.degree..

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2-thio- (8CI)
MF C20 H24 N2 O2 S
LC STN Files: BEILSTEIN*, CA, CAPLUS
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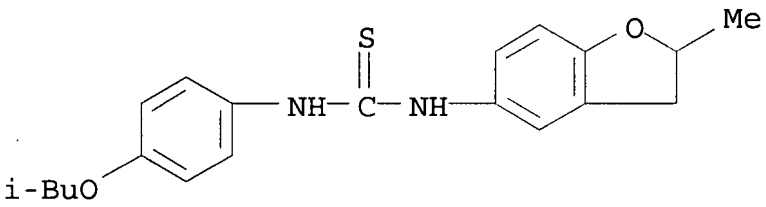

1 REFERENCES IN FILE CA (1967 TO DATE)
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REFERENCE 1

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SO Arzneim.-Forsch. (1969), 19(4), 543-58
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